Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike

e – MEASUREMENT BOOK

(FIRST AND PART)

Name of the Package:

Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

AGENCY: Sri. Srinivas Reddy H

Estimate Cost: 1000.00 Lakhs

Project Management Consultants:

SAPIENCE CONSULTANTS AND ENGINEERS, BANGALORE.

#B9-003, GANGA, Jnanabharathi Enclave, Valagerahalli, Mysore Road Bangalore 560056

Ph: 080-29523634; E-Mail: SAPIENCEBANGALORE@GMAIL.COM

BRUHAT BANGALORE MAHANAGARA PALIKE

BILL FORM

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Contractor / Agency: Sri. Sreenivasa Reddy | **JOB CODE: 003 - 22 - 000006**

FIRST and PART

Item No	Description of Work	Unit	Bill of Qunatites	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
1	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading to tippers, trimming bottom and side slopes, in accordance with	Cum	5008.80	0.00	0.00	0.00	64.58	0.00	0.00	0.00
2	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I	Sqm	16696.00	0.00	0.00	0.00	6.42	0.00	0.00	0.00
3	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical	Cum	2504.40	0.00	0.00	0.00	2014.87	0.00	0.00	0.00
4	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and 0.86cum	Cum	656.78	0.00	0.00	0.00	4101.90	0.00	0.00	0.00
5	Constructing un-reinforced,plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum,fine aggregates at 0.46 cum,coarse and fine	Cum	656.78	0.00	0.00	0.00	5690.65	0.00	0.00	0.00
6	KSRB 4-1.6: Providing and laying in postion **Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs,** with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in **foundation, plinth and** cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No-13, Item No-4.6.,(PWD BCSR 2018-19)	Cum	115.58	0.00	0.00	65.67	6089.85	399920.45	65.67	399920.45

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Item No	Description of Work	Unit	Bill of Qunatites	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
7	KSRB 4.1.3 : Providing and laying in position **plain cement concrete ofg Mix 1:4:8 with** opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30	Cum	991.05	0.00	0.00	547.44	5675.99	3107263.97	547.44	3107263.97
8	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)	Cum	6735.85	0.00	0.00	3713.63	217.43	807454.57	3713.63	807454.57
9	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Wall and Bottom Thickness 15 cm , Item No.37.59.2, Page No.271.-	Cum	1894.04	0.00	0.00	918.71	7497.22	6887770.99	918.71	6887770.99
10	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	Tonne	114.16	0.00	0.00	63.00	80948.07	5099728.41	63.00	5099728.41

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Previous | Present Measurement | Total Up-to-Date

Item No	Description of Work	Unit	Bill of Qunatites	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
11	Providing and Fixing pre cast covering Slab of 100mm thick made out of CC jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing including cost of all materials ,Labour,Hire charges of machineries,loading onloading,lead and lift,Transportation etc,complete as per Engineer in-charge (Date rate)	Sqm	5337.00	0.00	0.00	2955.24	1941.22	5736770.99	2955.24	5736770.99
12	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	67.20	0.00	0.00	30.12	4530.86	136469.50	30.12	136469.50
13	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively , 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials , labour,hire charges of machinery, loading, unloading, lead and lift, transportation ect., complete.I.No.-5.30,P.No-27 of PWD BCSR 2018-19 .	No	19940.74	0.00	0.00	7297.00	436.80	3187329.60	7297.00	3187329.60
14	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete	Sqm	2075.50	0.00	0.00	0.00	85.65	0.00	0.00	0.00
15	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with	Cum	2298.80	0.00	0.00	0.00	2021.29	0.00	0.00	0.00
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and sparying primer at	Sqm	10499.50	0.00	0.00	0.00	34.26	0.00	0.00	0.00
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set	Sqm	27929.50	0.00	0.00	0.00	12.85	0.00	0.00	0.00
18	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix	Cum	1396.48	0.00	0.00	0.00	7365.73	0.00	0.00	0.00
19	Providing and laying Bituminous concrete , using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a	Cum	1052.24	0.00	0.00	0.00	8534.82	0.00	0.00	0.00

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SAPIENCE CONSULTANTS ENGINEERS Bangalore-59

Item No	Description of Work	Unit	Bill of Qunatites	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
20	KSRRB M800-13 Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface / Concrete Surface :- Providing and lavine of hot applied	Sqm	1298.20	0.00	0.00	0.00	459.29	0.00	0.00	0.00
21	KSRRB M800-35 Supply and Installition of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective	No	1193.85	0.00	0.00	0.00	360.79	0.00	0.00	0.00
	TOTAL CONSTRUCTION COST				0.00			25362708.48		25362708.48
	GOODS AND SERVICE TAX at 12%				0.00			3043525.02		3043525.02
	NET AMOUNT PAYABLE				0.00			28406233.50		28406233.50

Certificate

1 The above work has been Completed satisfactorily
2 The debris has been removed and disposed from the work spot
3 No departmental issues are made to the contractor

Contractor

PMC

ENGINEERS * SAPIENCE CONSULTANTS * Bangalore-59

Assistant Engineer, W-03.
Yelahanka New Town Sub Division
BBMP

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

BRUHAT BENGALURU MAHANAGARA PALIKE

Yelahanka Division

DETAILED MEASUREMENTS

Name of the Package:

Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Agency: Sri. Srinivasa Reddy H

PMC: Sapience Consultants and Engineers

A.E: Sri. Ramakrishnaiah

A.E.E.: Sri. Sachin

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	8
Item Name:	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)

Final Measurement Date(s) : 19/02/2022; 21/02/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Earthwork for new Box Drain									
3rd Main Road kaveri layout LHS									
0.00	30.00	1	30.00	1.10		1.10	1.00	33.00	
30.00	60.00	1	30.00	1.10		1.10	1.00	33.00	
60.00	90.00	1	30.00	1.10		1.10	1.00	33.00	
90.00	120.00	1	30.00	1.10		1.10	1.00	33.00	
120.00	139.00	1	19.00	1.10		1.10	1.00	20.90	
139.00	146.00	1						0.00	Old culvert
146.00	171.00	1	25.00	1.10		1.10	1.00	27.50	
171.00	177.00	1						0.00	Old culvert
177.00	203.00	1	26.00	1.10		1.10	1.00	28.60	
203.00	208.50	1						0.00	Old culvert
208.50	235.00	1	26.50	1.10		1.10	1.00	29.15	
235.00	240.50	1						0.00	Old culvert
240.50	263.00	1	22.50	1.10		1.10	1.00	24.75	
3rd Main Road kaveri layout RHS									
0.00	30.00	1	30.00	1.10		1.10	1.00	33.00	
30.00	60.00	1	30.00	1.10		1.10	1.00	33.00	
60.00	90.00	1	30.00	1.10		1.10	1.00	33.00	
90.00	120.00	1	30.00	1.10		1.10	1.00	33.00	
120.00	150.00	1	30.00	1.10		1.10	1.00	33.00	
150.00	180.00	1	30.00	1.10		1.10	1.00	33.00	
180.00	210.00	1	30.00	1.10		1.10	1.00	33.00	
210.00	240.00	1	30.00	1.10		1.10	1.00	33.00	
240.00	270.00	1	30.00	1.10		1.10	1.00	33.00	
270.00	282.60	1	12.60	1.10		1.10	1.00	13.86	

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Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1049.30	1067.20								
1067.20	1080.00	1	12.80	0.20		0.20	0.10	0.26	College Gate1
1080.00	1110.00	1	30.00	0.20		0.20	0.10	0.60	
1110.00	1124.30	1	14.30	0.20		0.20	0.10	0.29	
1124.30	1141.40								College Gate2
1141.40	1170.00	1	28.60	0.20		0.20	0.10	0.57	
1170.00	1200.00	1	30.00	0.20		0.20	0.10	0.60	
1200.00	1230.00	1	30.00	0.20		0.20	0.10	0.60	
1230.00	1260.00	1	30.00	0.20		0.20	0.10	0.60	
1260.00	1290.00	1	30.00	0.20		0.20	0.10	0.60	
1290.00	1314.10	1	24.10	0.20		0.20	0.10	0.48	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50	0.20		0.20	0.10	0.57	
1350.00	1380.00	1	30.00	0.20		0.20	0.10	0.60	
1380.00	1410.00	1	30.00	0.20		0.20	0.10	0.60	
1410.00	1431.50	1	21.50	0.20		0.20	0.10	0.43	
							Net Qty	3713.63	CUM

Contractor Representative

Consultant Representative

Asst Engineer, N-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	6
Item Name:	KSRB 4-1.6: Providing and laying in postion Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No-13, Item No-4.6.,(PWD BCSR 2018-19)

Final Measurement Date(s) : 10/03/2022; 11/03/2022; 12/03/2022

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
Packing Concrete for Kerbs									
3rd Main Road kaveri layout LHS									
0.00	30.00	1	30.00	0.20		0.20	0.10	0.60	
30.00	60.00	1	30.00	0.20		0.20	0.10	0.60	
60.00	90.00	1	30.00	0.20		0.20	0.10	0.60	
90.00	120.00	1	30.00	0.20		0.20	0.10	0.60	
120.00	139.00	1	19.00	0.20		0.20	0.10	0.38	
139.00	146.00							0.00	Old culvert
146.00	171.00	1	25.00	0.20		0.20	0.10	0.50	
171.00	177.00							0.00	Old culvert
177.00	203.00	1	26.00	0.20		0.20	0.10	0.52	
203.00	208.50							0.00	Old culvert
208.50	235.00	1	26.50	0.20		0.20	0.10	0.53	
235.00	240.50							0.00	Old culvert
240.50	263.00	1	22.50	0.20		0.20	0.10	0.45	
3rd Main Road kaveri layout RHS									
0.00	30.00	1	30.00	0.20		0.20	0.10	0.60	
30.00	60.00	1	30.00	0.20		0.20	0.10	0.60	
60.00	90.00	1	30.00	0.20		0.20	0.10	0.60	
90.00	120.00	1	30.00	0.20		0.20	0.10	0.60	
120.00	150.00	1	30.00	0.20		0.20	0.10	0.60	
150.00	180.00	1	30.00	0.20		0.20	0.10	0.60	
180.00	210.00	1	30.00	0.20		0.20	0.10	0.60	
210.00	240.00	1	30.00	0.20		0.20	0.10	0.60	
240.00	270.00	1	30.00	0.20		0.20	0.10	0.60	
270.00	282.60	1	12.60	0.20		0.20	0.10	0.25	

CONSULTANTS & ENGINEERS Bangalore-59

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Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1260.00	1290.00	1	30.00	0.20		0.20	0.10	0.60	
1290.00	1314.10	1	24.10	0.20		0.20	0.10	0.48	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50	0.20		0.20	0.10	0.57	
1350.00	1380.00	1	30.00	0.20		0.20	0.10	0.60	
1380.00	1410.00	1	30.00	0.20		0.20	0.10	0.60	
1410.00	1431.50	1	21.50	0.20		0.20	0.10	0.43	
Total Qty								65.67	CUM

CAFE

Contractor Representative

SAPIENCE CONSULTANTS & ENGINEERS * Bangalore-59

Consultant Representative

Asst Engineer, W-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	7
Item Name:	KSRB 4-1.3 : Providing and laying in position plain cement concrete ofg Mix 1:4:8 with opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30

Final Measurement Date(s) : 22/02/2022; 23/02/2022; 24/03/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
PCC for Bed Concrete									
3rd Main Road kaveri layout LHS									
0.00	30.00	1	30.00	1.10		1.10	0.15	4.95	
30.00	60.00	1	30.00	1.10		1.10	0.15	4.95	
60.00	90.00	1	30.00	1.10		1.10	0.15	4.95	
90.00	120.00	1	30.00	1.10		1.10	0.15	4.95	
120.00	139.00	1	19.00	1.10		1.10	0.15	3.14	
139.00	146.00							0.00	Old culvert
146.00	171.00	1	25.00	1.10		1.10	0.15	4.13	
171.00	177.00							0.00	Old culvert
177.00	203.00	1	26.00	1.10		1.10	0.15	4.29	
203.00	208.50							0.00	Old culvert
208.50	235.00	1	26.50	1.10		1.10	0.15	4.37	
235.00	240.50							0.00	Old culvert
240.50	263.00	1	22.50	1.10		1.10	0.15	3.71	
3rd Main Road kaveri layout RHS									
0.00	30.00	1	30.00	1.10		1.10	0.15	4.95	
30.00	60.00	1	30.00	1.10		1.10	0.15	4.95	
60.00	90.00	1	30.00	1.10		1.10	0.15	4.95	
90.00	120.00	1	30.00	1.10		1.10	0.15	4.95	
120.00	150.00	1	30.00	1.10		1.10	0.15	4.95	
150.00	180.00	1	30.00	1.10		1.10	0.15	4.95	
180.00	210.00	1	30.00	1.10		1.10	0.15	4.95	
210.00	240.00	1	30.00	1.10		1.10	0.15	4.95	
240.00	270.00	1	30.00	1.10		1.10	0.15	4.95	
270.00	282.60	1	12.60	1.10		1.10	0.15	2.08	

SAPIENCE CONSULTANT Bangalore

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Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1230.00	1260.00	1	30.00	1.10		1.10	0.15	4.95	
1260.00	1290.00	1	30.00	1.10		1.10	0.15	4.95	
1290.00	1314.10	1	24.10	1.10		1.10	0.15	3.98	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50	1.10		1.10	0.15	4.70	
1350.00	1380.00	1	30.00	1.10		1.10	0.15	4.95	
1380.00	1410.00	1	30.00	1.10		1.10	0.15	4.95	
1410.00	1431.50	1	21.50	1.10		1.10	0.15	3.55	
PCC for new Box Culvert									
4th Main,3rd cross road Kaveri layout RHS									
13.60	19.70	1	6.10	1.50		1.50	0.15	1.37	
4th Main,4th cross road Kaveri layout RHS									
45.70	52.10	1	6.40	1.50		1.50	0.15	1.44	
4th Main 1st cross road Kaveri layout RHS									
77.10	84.20	1	7.10	1.50		1.50	0.15	1.60	
4th main 2nd cross road Kaveri layout RHS									
110.1	115.6	1	5.50	1.50		1.50	0.15	1.24	
Total Qty								547.44	CUM

CAFC

Contractor Representative

PLENUM CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer, 2-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	10
Item Name:	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19

Final Measurement Date(s) : 25/02/2022; 28/02/2022;

Sl No	Dia of Bar in mm	Mat	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in	Weight of Steel in kgs	Remarks
Single Mat for Drain										
3rd main road kaveri layout LHS										
1	8	2	225mm C/C	9	239.00	4461.33	Distri	0.395	1762.50	
2	10	2	225mm C/C	1062	2.10	4461.33	Main	0.617	2753.91	
3rd main road kaveri layout RHS										
1	8	2	225mm C/C	9	282.60	5275.20	Distri	0.395	2084.03	
2	10	2	225mm C/C	1256	2.10	5275.20	Main	0.617	3256.30	
3rd Main, 1st cross road kaveri layout LHS										
1	8	2	225mm C/C	9	63.10	1177.87	Distri	0.395	465.33	
2	10	2	225mm C/C	280	2.10	1177.87	Main	0.617	727.08	
3rd Main, 1st cross road kaveri layout RHS										
1	8	2	225mm C/C	9	63.10	1177.87	Distri	0.395	465.33	
2	10	2	225mm C/C	280	2.10	1177.87	Main	0.617	727.08	
3rd Main, 2nd cross road kaveri layout LHS										
1	8	2	225mm C/C	9	128.20	2393.07	Distri	0.395	945.41	
2	10	2	225mm C/C	570	2.10	2393.07	Main	0.617	1477.20	
3rd Main, 2nd cross road kaveri layout RHS										
1	8	2	225mm C/C	9	128.40	2396.80	Distri	0.395	946.88	
2	10	2	225mm C/C	571	2.10	2396.80	Main	0.617	1479.51	

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Sl No	Dia of Bar in mm	Mat	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in	Weight of Steel in kgs	Remarks
New Box Culvert										
4th Main,3rd cross road Kaveri layout RHS										
1	10	2	200mm C/C	11	6.10	128.10	Distri	0.617	79.07	
2	12	2	150mm C/C	41	2.10	170.80	Main	0.889	151.82	
4th Main,4th cross road Kaveri layout RHS										
1	10	2	200mm C/C	11	6.40	134.40	Distri	0.617	82.96	
2	12	2	150mm C/C	43	2.10	179.20	Main	0.889	159.29	
4th Main,1st cross road Kaveri layout RHS										
1	10	2	200mm C/C	11	7.10	149.10	Distri	0.617	92.04	
2	12	2	150mm C/C	47	2.10	198.80	Main	0.889	176.71	
4th Main 2nd cross road Kaveri layout RHS										
1	10	2	200mm C/C	11	5.50	115.50	Distri	0.617	71.30	
2	12	2	150mm C/C	37	2.10	154.00	Main	0.889	136.89	
								Total Quantity of Steel in Kg's	**63000.68**	**Kgs**
								Total Quantity of Steel in Tonne's	**63.00**	**TONNE**

Contractor Representative

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer, 21-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	9
Item Name:	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Wall and Bottom Thickness 15 cm , Item No.37.59.2, Page No.271.-

Final Measurement Date(s) : 03/03/2022; 04/03/2022; 05/03/2022; 06/03/2022; 07/03/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Raft									
3rd Main road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90	0.15	4.05	
30.00	60.00	1	30.00	0.90		0.90	0.15	4.05	
60.00	90.00	1	30.00	0.90		0.90	0.15	4.05	
90.00	120.00	1	30.00	0.90		0.90	0.15	4.05	
120.00	139.00	1	19.00	0.90		0.90	0.15	2.57	
139.00	146.00	1						0.00	Old Culvert
146.00	171.00	1	25.00	0.90		0.90	0.15	3.38	
171.00	177.00	1						0.00	Old Culvert
177.00	203.00	1	26.00	0.90		0.90	0.15	3.51	
203.00	208.50	1						0.00	Old Culvert
208.50	235.00	1	26.50	0.90		0.90	0.15	3.58	
235.00	240.50	1						0.00	Old Culvert
240.50	263.00	1	22.50	0.90		0.90	0.15	3.04	
3rd Main road kaveri layout RHS									
0.0	30.0	1	30.00	0.90		0.90	0.15	4.05	
30.0	60.0	1	30.00	0.90		0.90	0.15	4.05	
60.0	90.0	1	30.00	0.90		0.90	0.15	4.05	
90.0	120.0	1	30.00	0.90		0.90	0.15	4.05	
120.0	150.0	1	30.00	0.90		0.90	0.15	4.05	
150.0	180.0	1	30.00	0.90		0.90	0.15	4.05	
180.0	210.0	1	30.00	0.90		0.90	0.15	4.05	
210.0	240.0	1	30.00	0.90		0.90	0.15	4.05	
240.0	270.0	1	30.00	0.90		0.90	0.15	4.05	
270.0	282.6	1	12.60	0.90		0.90	0.15	1.70	

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Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1080.00	1110.00	1	30.00	0.15		0.15	0.60	2.70	
1110.00	1124.30	1	14.30	0.15		0.15	0.60	1.29	
1124.30	1141.40								College Gate2
1141.40	1170.00	1	28.60	0.15		0.15	0.60	2.57	
1170.00	1200.00	1	30.00	0.15		0.15	0.60	2.70	
1200.00	1230.00	1	30.00	0.15		0.15	0.60	2.70	
1230.00	1260.00	1	30.00	0.15		0.15	0.60	2.70	
1260.00	1290.00	1	30.00	0.15		0.15	0.60	2.70	
1290.00	1314.10	1	24.10	0.15		0.15	0.60	2.17	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50	0.15		0.15	0.60	2.57	
1350.00	1380.00	1	30.00	0.15		0.15	0.60	2.70	
1380.00	1410.00	1	30.00	0.15		0.15	0.60	2.70	
1410.00	1431.50	1	21.50	0.15		0.15	0.60	1.94	
New Box Culvert									
4th Main,3rd cross road Kaveri layout RHS									
13.60	19.70	1	6.10	0.23		0.23	0.50	0.7	
4th Main,4th cross road Kaveri layout RHS									
45.70	52.10	1	6.40	0.23		0.23	0.50	0.74	
4th Main,1st cross road Kaveri layout RHS									
77.10	84.20	1	7.10	0.23		0.23	0.50	0.82	
4th Main 2nd cross road Kaveri layout RHS									
110.1	115.6	1	5.50	0.23		0.23	0.50	0.63	
Total Qty								918.71	CUM

Contractor Representative

CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer, W-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	11
Item Name:	Providing and Fixing pre cast covering Slab of 100mm thick made out of CC jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing including cost of all materials ,Labour,Hire charges of machineries,loading onloading,lead and lift,Transportation etc,complete. as per Engineer in-charge.(Date rate)

Final Measurement Date(s) : 06/04/2022; 08/04/2022

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
Pre cast slab									
3rd Main Road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	139.00	1	19.00	0.90		0.90		17.10	
139.00	146.00							0.00	Old Culvert
146.00	171.00	1	25.00	0.90		0.90		22.50	
171.00	177.00							0.00	Old Culvert
177.00	203.00	1	26.00	0.90		0.90		23.40	
203.00	208.50							0.00	Old Culvert
208.50	235.00	1	26.50	0.90		0.90		23.85	
235.00	240.50							0.00	Old Culvert
240.50	263.00	1	22.50	0.90		0.90		20.25	
3rd Main Road kaveri layout RHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
150.00	180.00	1	30.00	0.90		0.90		27.00	
180.00	210.00	1	30.00	0.90		0.90		27.00	
210.00	240.00	1	30.00	0.90		0.90		27.00	
240.00	270.00	1	30.00	0.90		0.90		27.00	
270.00	282.60	1	12.60	0.90		0.90		11.34	

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Chainage / Land Mark		Nos	L (m)	B (m)	BT (m)	Avg B (m)	D (m)	Qty	REMARKS
3rd Main, 1st cross road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	63.10	1	3.10	0.90		0.90		2.79	
3rd Main, 1st cross road kaveri layout RHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	63.10	1	3.10	0.90		0.90		2.79	
3rd Main, 2nd cross road kaver layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	128.20	1	8.20	0.90		0.90		7.38	
3rd Main, 2nd cross road kaver layout RHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	128.40	1	8.40	0.90		0.90		7.56	
3rd Main, 3rd cross road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
150.00	173.50	1	23.50	0.90		0.90		21.15	
3rd Main, 3rd cross road kaveri layout RHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
3rd Main, 4th cross road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
150.00	166.80	1	16.80	0.90		0.90		15.12	

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AE

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
3rd Main, 4th cross road kaveri layout RHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
150.00	166.80	1	16.80	0.90		0.90		15.12	
3rd Main, 5th cross road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
4th Main road kaveri layout LHS									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	36.50								Old Culvert
36.50	66.50	1	30.00	0.90		0.90		27.00	
66.50	96.50	1	30.00	0.90		0.90		27.00	
96.50	129.00	1	32.50	0.90		0.90		29.25	
4th Main road kaveri layout RHS									
0.00	13.60	1	13.60	0.90		0.90		12.24	
13.60	19.70			0.90				0.00	New Culvert
19.70	45.70	1	26.00	0.90		0.90		23.40	
45.70	52.10			0.90				0.00	New Culvert
52.10	77.10	1	25.00	0.90		0.90		22.50	
77.10	84.20			0.90				0.00	New Culvert
84.20	110.10	1	25.90	0.90		0.90		23.31	
110.10	115.60			0.90				0.00	New Culvert
115.60	130.70	1	15.10	0.90		0.90		13.59	
4th Main 1st cross road kaveri layout LHS									
0.00	27.10	1	27.10	0.90		0.90		24.39	
4th Main 2nd cross road kaveri layout RHS									
0.00	26.60	1	26.60	0.90		0.90		23.94	
IVRI Road from Doddaballapura Main Road to NVN College									
0.00	30.00	1	30.00	0.90		0.90		27.00	
30.00	60.00	1	30.00	0.90		0.90		27.00	
60.00	90.00	1	30.00	0.90		0.90		27.00	
90.00	120.00	1	30.00	0.90		0.90		27.00	
120.00	150.00	1	30.00	0.90		0.90		27.00	
150.00	180.00	1	30.00	0.90		0.90		27.00	
180.00	210.00	1	30.00	0.90		0.90		27.00	

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AE

Chainage		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Land Mark									
210.00	240.00	1	30.00	0.90		0.90		27.00	
240.00	270.00	1	30.00	0.90		0.90		27.00	
270.00	282.60	1	12.60	0.90		0.90		11.34	
282.60	286.60								Transformer1
286.60	300.00	1	13.40	0.90		0.90		12.06	
300.00	330.00	1	30.00	0.90		0.90		27.00	
330.00	360.00	1	30.00	0.90		0.90		27.00	
360.00	390.00	1	30.00	0.90		0.90		27.00	
390.00	420.00	1	30.00	0.90		0.90		27.00	
420.00	450.00	1	30.00	0.90		0.90		27.00	
450.00	480.00	1	30.00	0.90		0.90		27.00	
480.00	510.00	1	30.00	0.90		0.90		27.00	
510.00	540.00	1	30.00	0.90		0.90		27.00	
540.00	570.00	1	30.00	0.90		0.90		27.00	
570.00	600.00	1	30.00	0.90		0.90		27.00	
600.00	630.00	1	30.00	0.90		0.90		27.00	
630.00	661.20	1	31.20	0.90		0.90		28.08	
661.20	665.00								Transformer2
665.00	690.00	1	24.00	0.90		0.90		21.60	
690.00	720.00	1	30.00	0.90		0.90		27.00	
720.00	750.00	1	30.00	0.90		0.90		27.00	
750.00	780.00	1	30.00	0.90		0.90		27.00	
780.00	810.00	1	30.00	0.90		0.90		27.00	
810.00	840.00	1	30.00	0.90		0.90		27.00	
840.00	870.00	1	30.00	0.90		0.90		27.00	
870.00	900.00	1	30.00	0.90		0.90		27.00	
900.00	930.00	1	30.00	0.90		0.90		27.00	
930.00	960.00	1	30.00	0.90		0.90		27.00	
960.00	990.00	1	30.00	0.90		0.90		27.00	
990.00	1049.30	1	59.30	0.90		0.90		53.37	
1049.30	1067.20								College Gate1
1067.20	1080.00	1	12.80	0.90		0.90		11.52	
1080.00	1110.00	1	30.00	0.90		0.90		27.00	
1110.00	1124.30	1	14.30	0.90		0.90		12.87	
1124.30	1141.40								College Gate2
1141.40	1170.00	1	28.60	0.90		0.90		25.74	
1170.00	1200.00	1	30.00	0.90		0.90		27.00	
1200.00	1230.00	1	30.00	0.90		0.90		27.00	

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1230.00	1260.00	1	30.00	0.90		0.90		27.00	
1260.00	1290.00	1	30.00	0.90		0.90		27.00	
1290.00	1314.10	1	24.10	0.90		0.90		21.69	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50	0.90		0.90		25.65	
1350.00	1380.00	1	30.00	0.90		0.90		27.00	
1380.00	1410.00	1	30.00	0.90		0.90		27.00	
1410.00	1431.50	1	21.50	0.90		0.90		19.35	
Total Qty								2935.24	Sqm

2935.24

Contractor Representative

CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer, 4-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	12
Item Name:	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)

Final Measurement Date(s) : 06/04/2022; 08/04/2022

Chainage / Land Mark			Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
New Box Culvert										
4th Main,3rd cross road Kaveri layout RHS										
	13.60	19.70	1	6.10	1.20		1.20		7.32	
4th Main,4th cross road Kaveri layout RHS										
	45.70	52.10	1	6.40	1.20		1.20		7.68	CAFC
4th Main,1st cross road Kaveri layout RHS										
	77.10	84.20	1	7.10	1.20		1.20		8.52	
4th Main 2nd cross road Kaveri layout RHS										
	110.1	115.6	1	5.50	1.20		1.20		6.60	
Total Qty									**30.12**	**Sqm**

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Contractor Representative

Consultant Representative

Asst Engineer, U-03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

FIRST and PART

Item No:	13
Item Name:	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively , 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials , labour,hire charges of machinery, loading, unloading, lead and lift, transportation ect., complete.I.No.-5.30,P.No-27 of PWD BCSR 2018-19 .

Final Measurement Date(s) : 06/04/2022; 08/04/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Pre cast Kerb									
3rd Main Road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	139.00	1	19.00					19.00	
139.00	146.00							0.00	Old Culvert
146.00	171.00	1	25.00					25.00	
171.00	177.00							0.00	Old Culvert
177.00	203.00	1	26.00					26.00	
203.00	208.50							0.00	Old Culvert
208.50	235.00	1	26.50					26.50	
235.00	240.50							0.00	Old Culvert
240.50	263.00	1	22.50					22.50	
3rd Main Road kaveri layout RHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	180.00	1	30.00					30.00	
180.00	210.00	1	30.00					30.00	
210.00	240.00	1	30.00					30.00	
240.00	270.00	1	30.00					30.00	
270.00	282.60	1	12.60					12.60	

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Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
3rd Main, 1st cross road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	63.10	1	3.10					3.10	
3rd Main, 1st cross road kaveri layout RHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	63.10	1	3.10					3.10	
3rd Main, 2nd cross road kaver layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	128.20	1	8.20					8.20	
3rd Main, 2nd cross road kaver layout RHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	128.40	1	8.40					8.40	
3rd Main, 3rd cross road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	173.50	1	23.50					23.50	
3rd Main, 3rd cross road kaveri layout RHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
3rd Main, 4th cross road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	166.80	1	16.80					16.80	

CAFE

13/4/22

AE

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
3rd Main, 4th cross road kaveri layout RHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	166.80	1	16.80					16.80	
3rd Main, 5th cross road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
4th Main road kaveri layout LHS									
0.00	30.00	1	30.00					30.00	
30.00	36.50							0.00	Old Culvert
36.50	66.50	1	30.00					30.00	
66.50	96.50	1	30.00					30.00	
96.50	129.00	1	32.50					32.50	
4th Main road kaveri layout RHS									
0.00	13.60	1	13.60					13.60	
13.60	19.70							0.00	New Culvert
19.70	45.70	1	26.00					26.00	
45.70	52.10							0.00	New Culvert
52.10	77.10	1	25.00					25.00	
77.10	84.20							0.00	New Culvert
84.20	110.10	1	25.90					25.90	
110.10	115.60							0.00	New Culvert
115.60	130.70	1	15.10					15.10	
4th Main 1st cross road kaveri layout LHS									
0.00	27.10	1	27.10					27.10	
4th Main 2nd cross road kaveri layout RHS									
0.00	26.60	1	26.60					26.60	
IVRI Road from Doddaballapura Main Road to NVN College									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	180.00	1	30.00					30.00	
180.00	210.00	1	30.00					30.00	

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AE

Chainage		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Land Mark									
210.00	240.00	1	30.00					30.00	
240.00	270.00	1	30.00					30.00	
270.00	282.60	1	12.60					12.60	
282.60	286.60								Transformer1
286.60	300.00	1	13.40					13.40	
300.00	330.00	1	30.00					30.00	
330.00	360.00	1	30.00					30.00	
360.00	390.00	1	30.00					30.00	
390.00	420.00	1	30.00					30.00	
420.00	450.00	1	30.00					30.00	
450.00	480.00	1	30.00					30.00	
480.00	510.00	1	30.00					30.00	
510.00	540.00	1	30.00					30.00	
540.00	570.00	1	30.00					30.00	
570.00	600.00	1	30.00					30.00	
600.00	630.00	1	30.00					30.00	
630.00	661.20	1	31.20					31.20	
661.20	666.00								Transformer2
666.00	690.00	1	24.00					24.00	
690.00	720.00	1	30.00					30.00	
720.00	750.00	1	30.00					30.00	
750.00	780.00	1	30.00					30.00	
780.00	810.00	1	30.00					30.00	
810.00	840.00	1	30.00					30.00	
840.00	870.00	1	30.00					30.00	
870.00	900.00	1	30.00					30.00	
900.00	930.00	1	30.00					30.00	
930.00	960.00	1	30.00					30.00	
960.00	990.00	1	30.00					30.00	
990.00	1049.30	1	59.30					59.30	
1049.30	1067.20								College Gate1
1067.20	1080.00	1	12.80					12.80	
1080.00	1110.00	1	30.00					30.00	
1110.00	1124.30	1	14.30					14.30	
1124.30	1141.40								College Gate2
1141.40	1170.00	1	28.60					28.60	
1170.00	1200.00	1	30.00					30.00	

Chainage	
Land Mark	
1200.00	12
1230.00	12
1260.00	12
1290.00	13
1314.10	13
1321.50	13
1350.00	13
1380.00	14
1410.00	14

Contractor Represe

Asst
Yelahanka New

SCIENCE CONSULTANTS & ENGINEERS Bangalore

AE

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
1200.00	1230.00	1	30.00					30.00	
1230.00	1260.00	1	30.00					30.00	
1260.00	1290.00	1	30.00					30.00	
1290.00	1314.10	1	24.10					24.10	
1314.10	1321.50								Rama-Lakshmi Dhama Gate
1321.50	1350.00	1	28.50					28.50	
1350.00	1380.00	1	30.00					30.00	
1380.00	1410.00	1	30.00					30.00	
1410.00	1431.50	1	21.50					30.00	
								21.50	
Total Length in mtr								3283.60	
Total Quantity = Length / 0.45								7297	Nos

Contractor Representative

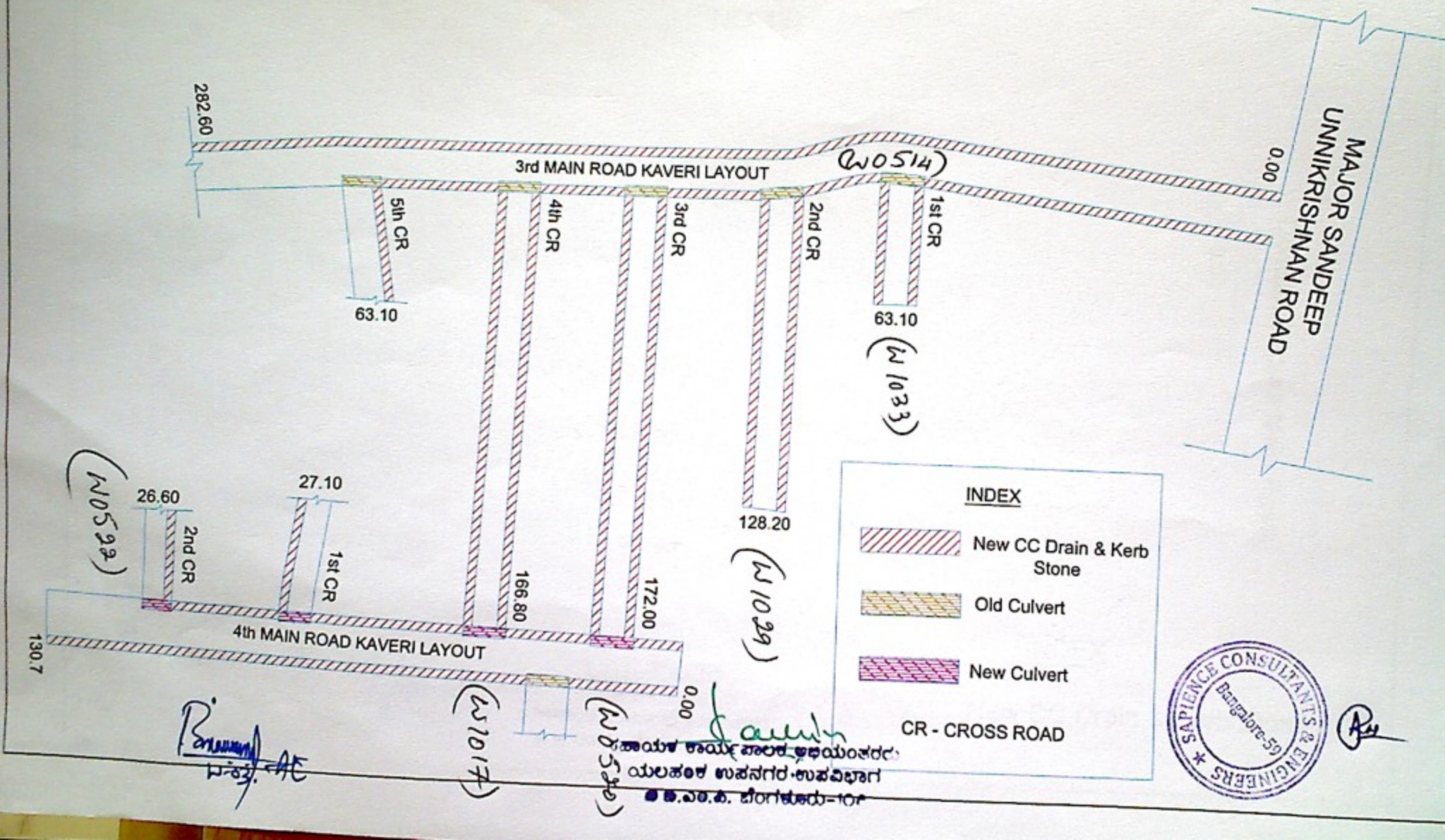
SAPPHIRE CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

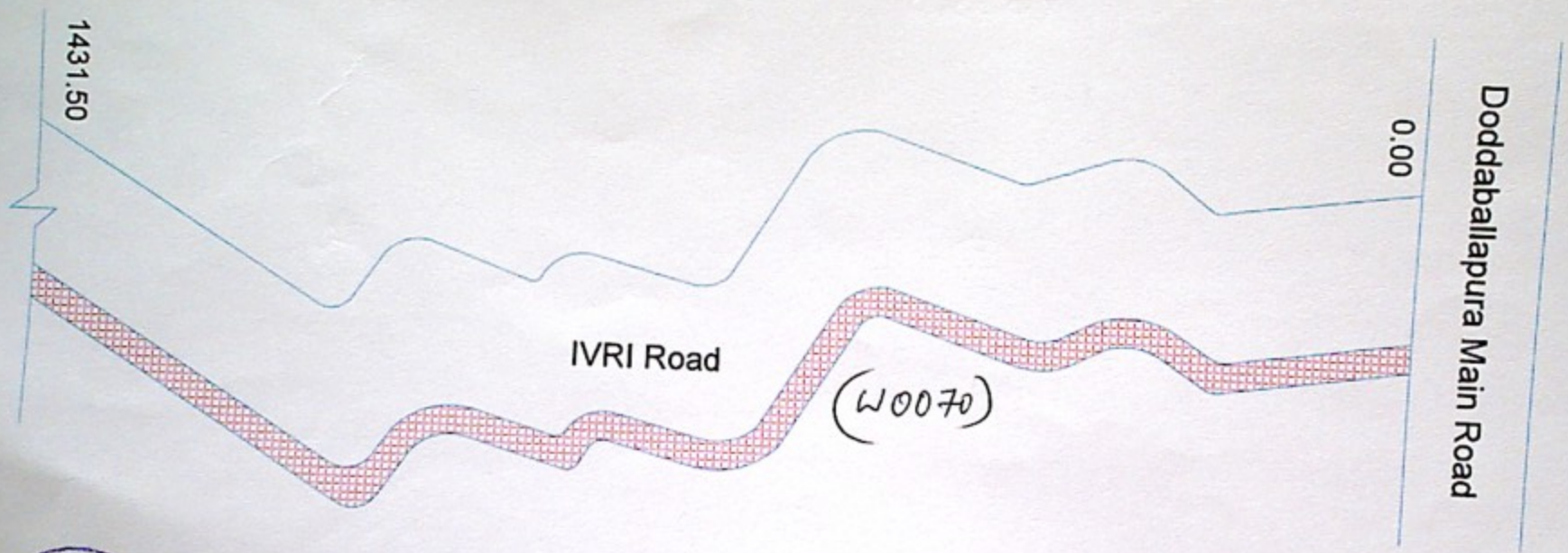
Asst Engineer, W.03.
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

Name of Work: Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)



Name of Work: Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)



SAI ENGINEERING CONSULTANTS & ENGINEERS Bangalore-59

W-03. AE

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ಜ.ಜ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

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New CC Drain & Kerb Stone